

**Amendments to Claims:**

Claims 1-29. (Cancelled)

Claim 30. (new) A method for electrolytic deposition of bronze onto a substrate, the method comprising:

immersing a substrate in an aqueous acidic electrolyte containing:

- 5       a) tin ions;  
         b) copper ions;  
         c) an alkylsulfonic acid; and  
         d) an aromatic, nonionic wetting agent.

Claim 31. (new) The method of claim 30 wherein the alkylsulfonic acid is present in the electrolyte at a concentration of from 140 to 382 g/L of electrolyte.

Claim 32. (new) The method of claim 30 wherein the alkylsulfonic acid comprises methanesulfonic acid in a concentration of at least about 290 g/L.

Claim 33. (new) The method of claim 30 wherein the electrolyte further comprises an oxidation inhibitor.

Claim 34. (new) The method of claim 30 wherein the electrolyte further comprises a dihydroxybenzene compound as an oxidation inhibitor.

Claim 35. (new) The method of claim 30 wherein the bronze deposited onto the substrate comprises at least about 60% by weight Cu.

Claim 36. (new) The method of claim 30 wherein the aromatic, nonionic wetting agent is present in the electrolyte at a concentration of from about 2 to about 40 g/L.

Claim 37. (new) The method of claim 30 wherein tin methanesulfonate is present in the electrolyte in an amount of from about 5 to about 195 g/L of electrolyte, thereby providing the tin ions at a concentration of from about 2 to about 75 g/L of electrolyte.

Claim 38. (new) The method of claim 30 wherein copper methanesulfonate is present in the electrolyte in an amount of from about 8 to about 280 g/L of electrolyte, thereby providing the copper ions at a concentration of from about 2 to about 70 g/L of electrolyte.

Claim 39. (new) The method of claim 30 wherein the electrolyte has a pH of less than about 1.

Claim 40. (new) An aqueous acidic electrolyte containing:  
a) tin ions;  
b) copper ions;  
c) an alkylsulfonic acid; and  
d) an aromatic, nonionic wetting agent.

Claim 41. (new) The electrolyte of claim 40 wherein the alkylsulfonic acid is present at a concentration of from about 140 to about 382 g/L of electrolyte.

Claim 42. (new) The electrolyte of claim 40 wherein the alkylsulfonic acid comprises methanesulfonic acid.

Claim 43. (new) The electrolyte of claim 40 wherein the alkylsulfonic acid comprises methanesulfonic acid in a concentration of at least about 290 g/L.

Claim 44. (new) The electrolyte of claim 40 further comprising an oxidation inhibitor.

Claim 45. (new) The electrolyte of claim 40 further comprising a dihydroxybenzene compound as an oxidation inhibitor.

Claim 46. (new) The electrolyte of claim 40 wherein the aromatic, nonionic wetting agent is present in the electrolyte at a concentration of from about 2 to about 40 g/L of electrolyte.

Claim 47. (new) The electrolyte of claim 40 wherein the tin ions are present at a concentration of from about 2 to about 75 g/L of electrolyte, and the copper ions are present at a concentration of from about 2 to about 70 g/L of electrolyte.

Claim 48. (new) The electrolyte of claim 40 further comprising a wetting agent selected from the group consisting of an anionic wetting agent, an aliphatic, nonionic wetting agent, and combinations thereof.

Claim 49. (new) The electrolyte of claim 40 further comprising a gluconate.

Claim 50. (new) The electrolyte of claim 40 further comprising hydroquinone.

Claim 51. (new) The electrolyte of claim 40 further comprising a brightener selected from the group consisting of aromatic carbonyl compounds,  $\alpha,\beta$ -unsaturated carbonyl compounds, and combinations thereof.

Claim 52. (new) The electrolyte of claim 40 having a pH of less than 1.

Claim 53. (new) An aqueous acidic electrolyte containing:

- a) divalent tin ions at a concentration of from about 2 to about 75 g/L of electrolyte;
- b) divalent copper ions at a concentration of from about 2 to about 70 g/L of electrolyte;
- c) an aromatic, nonionic wetting agent at a concentration of from about 2 to about 40 g/L of electrolyte;
- d) a stabilizer, complexing agent, or mixture thereof at a concentration of less than about 50 g/L of electrolyte;
- e) a wetting agent selected from the group consisting of an anionic wetting agent, a nonionic, aliphatic wetting agent, and mixtures thereof at a concentration of less than about 10 g/L of electrolyte;
- f) an oxidation inhibitor at a concentration of less than about 5 g/L of electrolyte;

- g) a brightener at a concentration of less than about 5 g/L of electrolyte; and
- h) an alkylsulfonic acid at a concentration of at least about 140 g/L of electrolyte.

20       Claim 54. (new) The electrolyte of claim 53 wherein the alkylsulfonic acid comprises methanesulfonic acid.

Claim 55. (new) The electrolyte of claim 53 wherein the alkylsulfonic acid comprises methanesulfonic acid in a concentration of at least about 290 g/L.